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Internet Traffic Engineering by Optimizing OSPF Weights - Fortz, Thorup (2000) (Correct) (25 citations)
virtual leased lines. Keywords-OSPF, **MPLS, traffic engineering**, local search, hashing tables, dynamic
www.ieee-infocom.org/2000/papers/165.ps

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RATES: A Server for MPLS Traffic Engineering - Aukia, Kodialam, Koppol.. (2000) (Correct) (10 citations)
Network Magazine 1 Rates: A Server For **Mpls Traffic Engineering** P. Aukia, M. Kodialam, P. V. Koppol, T.
www.bell-labs.com/user/suter/rates.ps.gz

Minimum Interference Routing with Applications to MPLS.. - Kodialam, Lakshman (2000) (Correct)
(10 citations)
Interference Routing with Applications to **MPLS Traffic Engineering** Murali Kodialam T. V. Lakshman Bell
www.ieee-infocom.org/2000/papers/459.ps

Traffic Engineering using Multiple Multipoint-to-Point LSPs - Saito, Miyao, Yoshida (2000) (Correct) (6 citations)

by a single p-t-p LSP. Conventional **MPLS traffic engineering** frameworks [3] 4] and mechanisms [5]
www.ieee-infocom.org/2000/papers/533.pdf

IP over Optical Networks: A Summary of Issues - Chandhok, Duressi.. (2000) (Correct)
OXC Control Plane 2.5.1 Overview of The **MPLS Traffic Engineering** Control 2.5.2 OXC Enhancements to
ftp.isi.edu/internet-drafts/draft-osu-ipo-mpls-issues-00.ps

Differentiated Services and Integrated Services Use of MPLS - Horlait, Rouhana (Correct)
services, RSVP, differentiated services, **MPLS, traffic engineering** [9] and constraint-based routing. Some
www-rp.lip6.fr/~eh/Files/mpls.pdf

Recent Trends in Networking Recent Trends in Networking.. - Raj Jain Raj (Correct)
University 32 Traffic Engineering Using **MPLS Traffic Engineering** Using MPLS q Traffic Engineering =
ftp.netlab.ohio-state.edu/pub/jain/talks/hipc982.ps

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49 documents found. **Order: number of citations.**

<u>Results of the Abbadingo One DFA Learning Competition and a.. - Lang, Pearlmutter (1998)</u> (Correct)
(11 citations)
Barak A. Pearlmutter Comp Sci Dept, **FEC** 313 Univ of New Mexico Albuquerque, NM 87131
with a set of training strings that had been **label**ed Lang and Pearlmutter ran the Abbadingo
target concept)and was required to predict the **labels** that the target would assign to a set of testing
www.cs.unm.edu/~bap/papers/ml-abbadingo-one.ps.gz

<u>RATES: A Server for MPLS Traffic Engineering - Aukia, Kodialam, Koppol.. (2000)</u> (Correct) (10 citations)
MPLS network into "forwarding equivalence classes" **FECs**) 5]6]The classification into **FECs** is done
classes" **FECs**) 5]6]The classification into **FECs** is done using packet filters that examine header
of the most significant reasons for Multi-Protocol **Label** Switched (MPLS) network deployment is network
www.bell-labs.com/user/suter/rates.ps.gz

<u>Minimum Interference Routing with Applications to MPLS.. - Kodialam, Lakshman (2000)</u> (Correct)
(10 citations)
MPLS network into "forwarding equivalence classes" **FECs**) 15]5]The classification into **FECs** is done
classes" **FECs**) 15]5]The classification into **FECs** is done using packet filters that examine header
in which these problems arise is that of dynamic **label** switched path (LSP) set-up in Multi-Protocol
www.ieee-infocom.org/2000/papers/459.ps

<u>Results of the Abbadingo One DFA Learning Competition.. - Lang, Pearlmutter, Price (1998)</u> (Correct)
(10 citations)
08540, kevin@research.nj.nec.com 2 Comp Sci Dept, **FEC** 313, Univ of New Mexico, Albuquerque, NM 87131,
with a set of training strings that had been **label**ed by an unseen deterministic finite automaton
target concept)and was required to predict the **labels** that the target would assign to a set of testing
www.cs.unm.edu/~bap/papers/icgi98.ps.gz

<u>Traffic Engineering using Multiple Multipoint-to-Point LSPs - Saito, Miyao, Yoshida (2000)</u> (Correct) (6 citations)

traffic of the same Forwarding Equivalence Class (**FEC**) 1]or to some portion of it. Hereafter, we
8 6 Ingress node lsp 2 3 Working route Spare route **FEC** element **Label Label** Next Hop Next Hop working
scheme using multiple multipoint-to-point (m-t-p) **Label** Switched Paths (LSPs) which can reduce the number
www.ieee-infocom.org/2000/papers/533.pdf

<u>MPLS: The Magic Behind the Myths - Armitage (2000)</u> (Correct) (3 citations)
Group gives the name forwarding equivalence class (**FEC**) to each set of packet f lows w ith common
tree between all the edge LSRs for each identifiable **FEC**. The **label** -virtual path/channel identifier
is not a requirement. INTRODUCTION Multiprotocol **label** switching (MPLS) is the convergence of
www.ces.clemson.edu/~rsass/courses/NRG/Papers/Armitage.pdf

<u>Minimum Interference Routing of Bandwidth Guaranteed.. - Kar, Kodialam, Lakshman (2000)</u> (Correct)
(3 citations)
MPLS network into "forwarding equivalence classes" **FECs**) 13]4]The classification into **FECs** is done
classes" **FECs**) 13]4]The classification into **FECs** is done using packet filters that examine header
in which these problems arise is that of dynamic **label** switched path (LSP) set-up in Multi-Protocol
www.glue.umd.edu/~koushik/jsacmpls.ps.gz

<u>Inter-Domain LSP Setup Using Bandwidth Management Points - Okumus, Hwang, Mantar, Chapin</u> (Correct)
(1 citation)
are associated with forwarding equivalency classes (**FEC**) and are local to that particular link. Peer LSRs
separate LSPs can be established for a single (**FEC**,OA) pair[19]PSC information is signalled during
this paper we propose a way to setup inter-domain **Label** Switched Path (LSP) with the help of a BMP in a
web.syr.edu/~iokumus/pages/../resources/Globecomm2001.pdf

<u>Restoration by Path Concatenation: Fast Recovery of MPLS.. - Afek, Bremler-Barr, Kaplan (2001)</u> (Correct)

RATES: A Server for MPLS Traffic Engineering
(2000) (Make Corrections) (17 citations)
P. Aukia, M. Kodialam, P. V. Koppol, T. V. Lakshman, H. Sarin,
B. Suter

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Abstract: It has been suggested that one of the most significant reasons
for Multi-Protocol Label Switched (MPLS) network deployment is network traffic engineering. The goal of traffic
engineering is to make best use of the network infrastructure and this is facilitated by the explicit routing feature of
MPLS which allows the potential addressing of many shortcomings associated with current IP routing schemes.
This paper describes a software system called Routing and Traffic Engineering Server (RATES)... (Update)

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.... **Multi Path Label Switching (MPLS) TE performs provisioning and admission control functions to
optimize network operators objectives [3], 8] 7] The TE mechanism takes two complementary forms, on
line and offline [4] 23] On line TE is state dependent and applies on**...

...Minimum interference routing algorithm (MIRA) is presented. **A server for MPLS traffic engineering using
MIRA (RATES) has been given in [14].** In MIRA model, the operation of mapping LSPs to network nodes is
represented by decision variable vector Xab. The elements of Xab...

Cited by: **More**
The Macroscopic Behavior of Internet Traffic: a Comparative.. - Uhlig, Bonaventure (2001)   (Correct)
Efficient Network Resource Allocation With QoS Guarantees - Gopalan (2003)   (Correct)
Service-Driven Traffic Engineering for Intradomain.. - Trimintzios, Pavlou, al. (2003)   (Correct)

Similar documents (at the sentence level):
21.1%:   Minimum Interference Routing with Applications to MPLS.. - Kodialam, Lakshman (2000)   (Correct)
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1.7:   Dynamic Routing of Bandwidth Guaranteed Tunnels with.. - Kodialam, Lakshman (2000)   (Correct)
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0.8:   A methodology for monitoring LSP availability in MPLS networks - Brooks, Sacks   (Correct)

Related documents from co-citation: **More** **All**
9:   Multiprotocol Label Switching Architecture (context) - Rosen, Viswanathan et al. - 1998
7:   An architecture for differentiated services (context) - Blake, Black et al. - 1998
6:   A Management and Control Architecture for Providing IP Differentiated Services i.. - Trimintzios,
Andrikopoulos et al. - 2001

BibTeX entry: **(Update)**

P. Aukia, M. Kodialam, P.V.N. Koppol, T.V. Lakshman, H. Sarin, and B. Suter, "RATES: A server for MPLS traffic
engineering," IEEE Network Magazine, pp. 34–41, March/April 2000. http://citeseer.ist.psu.edu/aukia00rates.html
More

@misc{ aukia00rates,
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        B. Suter",
    title = "RATES: A server for MPLS traffic engineering",
    text = "P. Aukia, M. Kodialam, P.V.N. Koppol, T.V. Lakshman, H. Sarin, and B. Sute

Alternate document: Details Min**imum Interference Routing of Bandwidth Guaranteed Tunnels with MPLS Traffic Engineering Applications (00)** Koushik Kar, Murali

Minimum Interference Routing with Applications to MPLS Traffic Engineering (2000) (Make Corrections) (28 citations)
Murali Kodialam, T.V. Lakshman
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Abstract: This paper presents a new algorithm for dynamic routing of bandwidth guaranteed tunnels where tunnel routing requests arrive one-by-one and there is no a priori knowledge regarding future requests. This problem is motivated by service provider needs for fast deployment of bandwidth guaranteed services and the consequent need in backbone networks for fast provisioning of bandwidth guaranteed paths. Offline routing algorithms cannot be used since they require a priori knowledge of all tunnel... (Update)

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...is investigated in Section III. D. **Minimum Interference Algorithm The Minimum Interference Algorithm (MIA) is an adaptation of algorithm [17], in which new LSPs are allocated so that the impact on current and future allocations is minimal.** Our implementation does not provide for...

...QoS paths but also plays an important role in CAC. Several papers have been presented to show the benefit of Multipath QoS routing. **In [12], the dynamic routing algorithm for MPLS networks is proposed where the path for each request is selected to prevent the interface...**

Cited by: More
Survivable Lightpath Routing: A New Approach to the Design.. - Modiano, Narula-Tam (Correct)
Efficient Network Resource Allocation With QoS Guarantees - Gopalan (2003) (Correct)
Routing Bandwidth Guaranteed Paths with Local.. - Li, Buddhikot.. (Correct)

Similar documents (at the sentence level): More
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15.6%: Integrated Dynamic IP and Wavelength Routing in IP over WDM.. - Kodialam, Lakshman (2001) (Correct)

Active bibliography (related documents): More All
0.3: Dynamic Routing of Bandwidth Guaranteed Tunnels with.. - Kodialam, Lakshman (2000) (Correct)
0.3: Steiner Trees and Beyond: Approximation Algorithms for Network.. - Ravi (1993) (Correct)
0.3: Models and Algorithms of QoS-based Routing with MPLS Traffic.. - Xu, Zhang (Correct)

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0.9: A methodology for monitoring LSP availability in MPLS networks - Brooks, Sacks (Correct)

Related documents from co-citation: More All
18: Multiprotocol Label Switching Architecture (context) - Rosen, Viswanathan et al. - 1998
11: QoS Routing Mechanisms and OSPF Extensions - Guerin, Orda et al. - 1996
7: Network Flows: Theory (context) - Ahuja, Magnanti et al. - 1993

BibTeX entry: (Update)

Murali Kodialam, and T. V. Lakshman, "Minimum Interference Routing with Applications to MPLS Traffic Engineering", INFOCOM 2000. http://citeseer.ist.psu.edu/kodialam00minimum.html More

```
@inproceedings{ kodialam00minimum,
    author = "Murali S. Kodialam and T. V. Lakshman",
```

Switchlets and Resource-Assured MPLS Networks
(2000) (Make Corrections) (3 citations)
Richard Mortier, Rebecca Isaacs, Keir Fraser

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Abstract: MPLS (Multi-Protocol Label Switching) is a technology with the potential to support multiple control systems, each with guaranteed QoS (Quality of Service), on connectionless best-effort networks. However, it does not provide all the capabilities required of a multi-service network. In particular, although resource-assured VPNs (Virtual Private Networks) can be created, there is no provision for inter-VPN resource management. Control flexibility is limited because resources must be pinned down... (Update)

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...are not restricted to ATM networks. **To support this claim, an implementation over MPLS has been performed and is reported elsewhere [16].** A. The components of the Tempest The Tempest is an implementation of a framework for network control based on the idea of partitioning...

.... **resource guarantees may be given [RFC2764, Isaacs00] and hence supporting multiple control systems with resource partitioning [Mortier01] The IETF s INTSERV effort aims to extend the Internet service model to support multimedia and data traffic within the same...**

Cited by: More
Dynamic Provisioning of Resource-Assured and Programmable Virtual .. - Isaacs (2000) (Correct)
Internet traffic engineering - Mortier (2002) (Correct)
Elastic Network Control: An Alternative to Active Networks - Bos, Isaacs, Mortier, Leslie (Correct)

Active bibliography (related documents): More All
0.3: Resource control of untrusted code in an open network environment - Menage (2003) (Correct)
0.2: Open Extensible Network Control - Bos (1999) (Correct)
0.2: Policy Specification for Programmable Networks - Sloman, Lupu (1999) (Correct)

Similar documents based on text: More All
1.0: Support for Resource-Assured and Dynamic Virtual Private Networks - Isaacs, Leslie (2001) (Correct)
0.7: Lightweight, Dynamic and Programmable Virtual Private Networks - Isaacs (2000) (Correct)
0.5: Integrity for Virtual Private Routed Networks - Bush, Griffin (Correct)

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4: Ospf version (context) - Moy - 1991
2: Integrated services in the internet architecture: an overview - Braden, Clark et al. - 1994
2: a practical framework for network programmability (context) - van der Merwe, Rooney et al. - 1998

BibTeX entry: (Update)

Richard Mortier, Rebecca Isaacs, and Keir Fraser. Switchlets and resource-assured MPLS networks. Technical Report No. 510. Cambridge University Computer Laboratory, UK, July 2000.
http://citeseer.ist.psu.edu/mortier00switchlets.html More

```
@misc{ mortier00switchlets,
    author = "R. Mortier and R. Isaacs and K. Fraser",
    title = "Switchlets and resource-assured MPLS networks",
    text = "Richard Mortier, Rebecca Isaacs, and Keir Fraser. Switchlets and resource-
      MPLS networks. Technical Report No. 510. Cambridge University Computer Laborator
      UK, July 2000.",
    year = "2000",
    url = "citeseer.ist.psu.edu/mortier00switchlets.html" }
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Citations (may not include all citations):
645 RSVP: A new resource ReSerVation protocol - Zhang, Deering et al. - 1993

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1 **Reliable transmission of high-quality video over ATM networks**
Parthasarathy, V.; Modestino, J.W.; Vastola, K.S.;
Image Processing, IEEE Transactions on , Volume: 8 , Issue: 3 , March 1999
Pages:361 - 374

[Abstract]   [PDF Full-Text (300 KB)]   **IEEE JNL**

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2 **New network QoS measures for FEC-based audio applications on th∣ Internet**
Miyata, T.; Fukuda, H.; Ono, S.;
Performance, Computing and Communications, 1998. IPCCC '98., IEEE
International , 16-18 Feb. 1998
Pages:355 - 362

[Abstract]   [PDF Full-Text (532 KB)]   **IEEE CNF**

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3 **Video multicast using layered FEC and scalable compression**
Wai-Tian Tan; Zakhor, A.;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 11 , Issue: 3 , March 2001
Pages:373 - 386

[Abstract]   [PDF Full-Text (480 KB)]   **IEEE JNL**

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4 **A new adaptive FEC scheme for wireless ATM networks**
Akyildiz, I.F.; Joe, I.; Driver, H.; Ho, Y.L.;
Military Communications Conference, 1998. MILCOM 98. Proceedings.,
IEEE , Volume: 1 , 18-21 Oct. 1998
Pages:277 - 281 vol.1

[Abstract]   [PDF Full-Text (416 KB)]   **IEEE CNF**

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5 **Simulation of FEC-based error control for packet audio on the Inter∣**

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☐	L12	l2 and L11	17	
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